

## Overview

### What's New

- Mobile Intel® Pentium® III up to 1.2 GHz-M processor
- ATI Mobility Radeon with 16-MB DDR SDRAM
- USB 2.0
- Optional External MultiBay

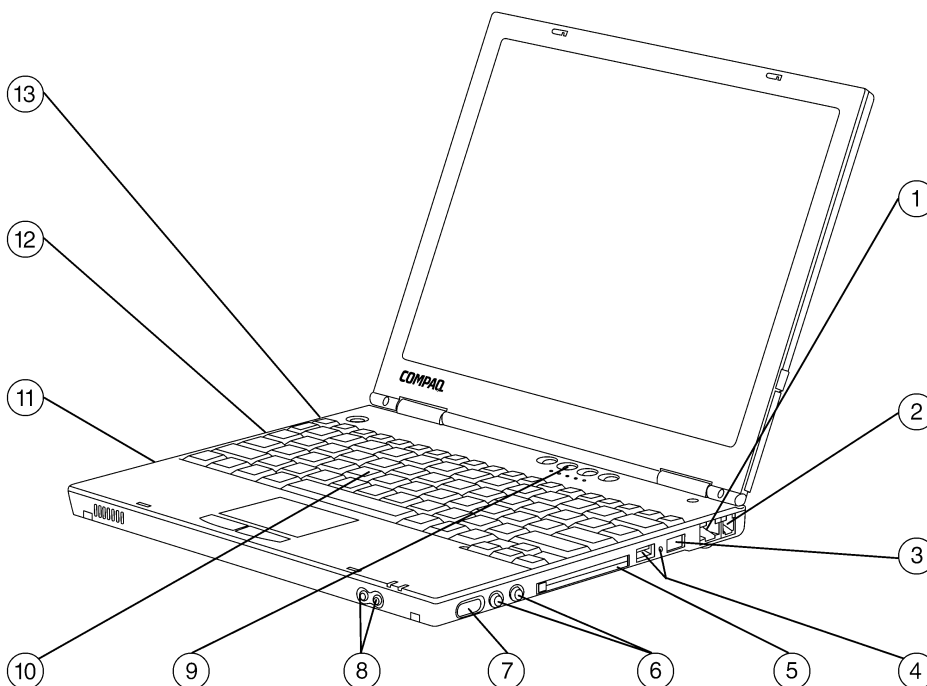
### At A Glance

- Weighs only 3.5 lb/1.59 kg
- Less than 1 in/2.3 cm thin
- 12.1-inch XGA TFT display
- 256-MB SDRAM upgradeable to 1024 MB
- Up to 30-GB User removable SMART hard drives
- Integrated mini PCI 56K V.90/V.92 modem plus 10/100 NIC
- Complete set of system ports
- Microsoft® Windows® XP Professional Edition or Microsoft Windows 2000 preinstalled
- Protected by a Three-year, Worldwide Limited Warranty — certain restrictions and exclusions apply. For details, consult the Product Information Centre at 1-888-88-COMPAQ.

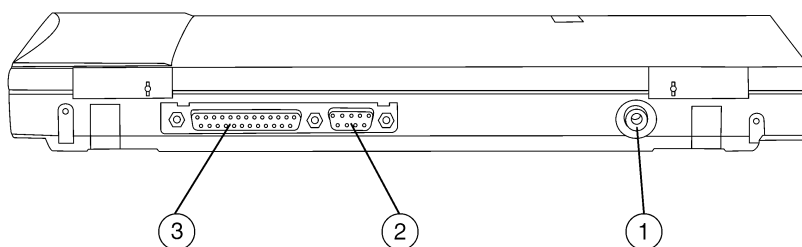
### What's Special

- Ultra-light weight – 3.5 lb/1.59 kg
- Innovative MultiPort
- Full sized keyboard
- Support for up to four batteries\*
- Self-powered External MultiBay, which provides a cost effective and travel friendly way to access MultiBay drives.
- Optional Mobile Expansion Unit providing Multimedia, NIC pass through, storage and enhanced security features
- Magnesium display enclosure
- Industry leading PC lifecycle solutions

NOTE: \* = Requires optional MEU.



- |   |                             |
|---|-----------------------------|
| 1. RJ-45 (NIC)                            | 8. External Volume Controls |
| 2. RJ-11 (Modem)                          | 9. Easy Access Buttons      |
| 3. Infrared Port                          | 10. Full Size Keyboard      |
| 4. Powered USB port for External MultiBay | 11. Cable Lock Slot         |
| 5. PC Card Slot (1)                       | 12. USB                     |
| 6. Headphone/Microphone Jacks             | 13. VGA Out                 |
| 7. Power                                  |                             |



- |           |             |
|-----------|-------------|
| 1. TV Out | 3. Parallel |
| 2. Serial |             |

### Standard Features

Processor and Panel	1.2 GHz-M Mobile Intel Pentium III processor with 512-KB L2 cache 1.0 GHz-M Mobile Intel Pentium III processor with 512-KB L2 cache 12.1-inch TFT XGA display with 1024x768 resolution up to 16.7M colours <b>NOTE:</b> Mobile Intel Pentium III-M processors support enhanced Intel SpeedStep™ technology.	
Memory	Standard 256-MB (133-MHz) SDRAM Maximum 1024-MB (133-MHz) SDRAM (with two slots) <b>NOTE:</b> Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only Compaq branded memory modules to ensure compatibility.	
Communications	Type III Mini PCI 56K (V.90/V.92) modem plus 10/100 NIC Combo <b>NOTE:</b> Designed only to allow faster downloads from V.90/V.92 compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. <b>NOTE:</b> Communication availability is subject to country regulatory approval.	
Keyboard	Full size desktop compatible keyboard, special feature hotkeys for instant access to power conservation, QuickLock/QuickBlank (ex: FN+F6), toggle between internal and external, or simultaneous displays, battery gauge, MultiPort on/off, speaker volume control, and brightness	
Easy Access Internet Buttons	The <i>Evo</i> ™ Notebook N410c comes with four Easy Access Buttons designed to increase customer productivity by providing one-touch access to helpful Compaq information, favorite Internet destinations, files, or applications.	
Pointing Device	Touchpad	
PC Card Slots	One Type II PC Card Slot that supports both 32-bit CardBus) and 16-bit PCMCIA Cards	
Storage	Diskette Drives	Optional Diskette Drive*
	Optical Drives	DVD/CD-RW Combo Drive* CD-RW Drive* DVD-ROM Drive* CD-ROM Drive*
	Hard Drive	40-GB SMART
	<b>NOTE:</b> * = Requires optional Mobile Expansion Unit (MEU) or External MultiBay.	
Multimedia	Compaq <i>Premier•Sound</i> ™ for enhanced stereo audio (with optional MEU) Integrated 16-bit Sound Blaster Pro-compatible stereo audio Integrated speaker and microphone External volume controls Headphone-out Microphone in Software MPEG1 support DVD movie playback software DVD-ROM Drive with DVD movie playback* DVD/CD-RW Combo Drive* CD-ROM Drive* 4X AGP graphics 16-MB DDR SDRAM <b>NOTE:</b> * = Requires optional Mobile Expansion Unit (MEU) or External MultiBay.	

### Standard Features

<b>Interfaces</b>	MultiPort	1
	PC Card Slot	One Type II
	Enhanced Parallel Port EPP/ECP	1
	Serial Port	1
	External Monitor	1
	TV-out	1
	Headphone/Line-out	1
	Microphone in	1
	AC Power	1
	RJ-11 (modem)	1 (Model dependent)
	RJ-45 (NIC)	1 (Model dependent)
	Infrared Port	1 (4 Mb/s support) (IrDA 4 MB compliant. IR performance will vary depending on performance of IR peripherals and application used.)
	USB Port	2
	LED Status Indicators	7
<b>Graphics</b>	ATI Mobility Radeon M6 with 16-MB DDR SDRAM	
<b>Display</b> (External)	Up to 32-bit per pixel colour depth Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 1024, or 1600 x 1200 resolutions up to 100-Hz refresh rate, dependent upon monitor capability, and resolution and colour depth settings	
<b>Display</b> (Internal)	12.1-inch TFT XGA display with 1024 x 768 resolution up to 16.7M colours	
<b>Operating System</b> <i>One of the following</i>	Microsoft Windows XP Professional Edition Microsoft Windows 2000 <b>NOTE:</b> Driver support for Microsoft Windows 98 SE and Microsoft Windows NT® 4.0.	
<b>Software</b>	Compaq Management Agents Diagnostics for Microsoft Windows DVD Playback Software (with optional MEU) Altiris eXpress™ Client Compaq Health and Support Guide Compaq Info Centre Guide	
<b>System Recovery</b>	Each unit is shipped with a CD (kit) for quick recovery (erases hard disk and restores manufacturer installed image) and software recovery (installs only selected standard software).	
<b>Intelligent Manageability</b>	Compaq Intelligent Manageability, a key component of PC Lifecycle Solutions, is the broad set of manageability features found on Compaq <i>Deskpro</i> ™ EN desktops, <i>Armada</i> ™ notebooks, <i>Evo</i> Clients, Professional Workstations, <i>iPAQ</i> ™ Deskside and <i>ProLiant</i> ™ server products. These best-in-class features on PC clients comply with industry standards, such as DMI and Wired for Management, while pioneering new ground in client manageability. Compaq introduced the industry's first line of manageable clients in 1995 and has been driving the industry ever since. With Compaq's lifecycle management philosophy, enterprises have all of the pieces for end-to-end management and proven tools for hassle-free management of PCs. The combination of these tools will significantly lower the Total Cost of Ownership of managing the computing environment. Intelligent Manageability offers solutions in the areas of Initial Configuration and Deployment, Asset Tracking and Security, Software Updating and Management, and Fault Notification and Recovery. For more information, visit these Compaq websites: <a href="http://www.compaq.com/im">http://www.compaq.com/im</a> ; <a href="http://www.compaq.com/easydeploy">http://www.compaq.com/easydeploy</a> ; <a href="http://www.compaq.com/solutions/pcsolutions">http://www.compaq.com/solutions/pcsolutions</a>	

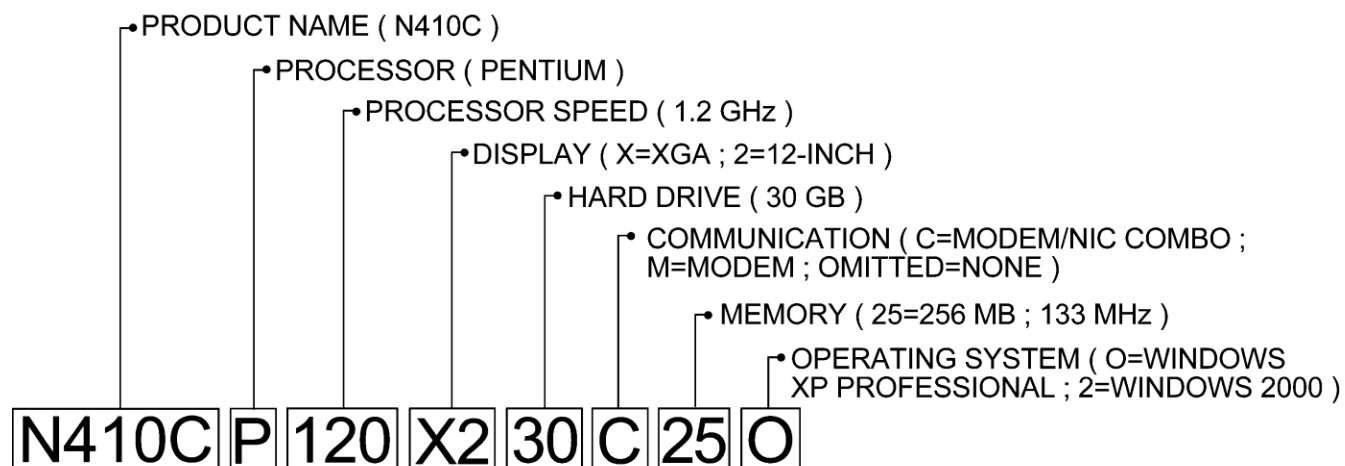
### Standard Features

<b>Security</b>	<p>Configuration Control Hardware Memory Change Alert Ownership Tag Setup Password Power-On Password DriveLock Enabled for PC SmartCard options Kensington Lock Slot</p>
<b>Power Supply</b>	<p>External AC (65 Watt) adapter (only 0.62 lb/0.28 kg, 6-foot/1.8 metre) power cord included. Total length including External AC adapter is 12 feet/3.66 metre</p>
<b>Battery</b>	<p>The <i>Evo</i> Notebook N410c 4-cell internal (main) Lithium-Ion battery provides over two hours of battery life; over four hours achieved using optional external battery.</p> <p><b>NOTE:</b> Actual results may vary with product model, configuration, and individual usage. Compaq results of 2:20 (hr:min) were achieved running the eTesting Labs Inc.'s Business Winstone 2001 BatteryMark™ Test version 1.0.1 on an N410c with an Intel Pentium III 1.2 GHz CPU, 12.1-inch XGA panel, 256-MB RAM, 30-GB HDD, 4-cell Lithium-Ion battery, and combination NIC/modem. System parameters were set according to Ziff Davis recommendations: panel brightness 50%, hard drive, standby and video idle time set to never, laptop power management scheme.</p> <p><b>NOTE:</b> This test was performed without independent verification by eTesting Labs Inc. eTesting Labs Inc. makes no representations or warranties as to the result of the test. BatteryMark is a trademark of Ziff Davis Publishing Holdings Inc., and affiliate of eTesting Labs Inc., in the U.S. and other countries.</p>
<b>Power Conservation</b>	<p>Supports enhanced Intel SpeedStep technology (allows a Battery Optimized Mode where CPU draws 50% of normal power yet affords 70 to 80% of maximum PIII processing speed)</p> <p>Hibernation Instant-on via Standby Pop-ups with three presets One custom level of power conservation ACPI compliant</p>
<b>MultiBay Devices</b> (requires optional MEU)	<p>MultiBay devices may be swapped with the system powered on (hot) under Microsoft Windows XP Professional or Windows 2000 (except MultiBay Zip drive or MultiBay secondary hard drive).</p> <p>MultiBay devices can be swapped with system power off under any supported operating system.</p>
<b>MultiPort</b>	<p>MultiPort is a flexible, innovative solution providing customers the ability to connect to their choice of wireless standards such as 802.11b or Bluetooth™. This can be achieved by simply changing out the high-performance wireless module, which is integrated into the top of the notebook. The award-winning MultiPort offers a cost effective means to migrate to future wireless standards as they become available.</p>
<b>Docking/System Expansion</b>	<p>The optional Mobile Expansion Unit (MEU) with NIC pass through extends the capabilities of the <i>Evo</i> Notebook N410c by adding dual MultiBay support, network connectivity, full port replication, and stereo speakers. The MultiBays in the MEU accept all common <i>Evo</i> series MultiBay drives and devices. The External MultiBay is a cost effective, travel friendly USB based alternative to the MEU which provides access to two MultiBay devices.</p> <p><b>NOTE:</b> The N410c is not compatible with Compaq docking solutions. Docking functionality is provided via the MEU.</p>
<b>Service and Support</b>	<p>Compaq Services includes a Three-year, Worldwide Limited Warranty, pick-up or carry-in, toll-free 7 x 24 hardware technical phone support. Optional services include upgrade to Three-year Standard Warranty, Onsite Warranty, or Application and Operating System Support.</p> <p>Compaq Services includes a One-year Limited Warranty, whole-unit replacement through second business day, and pick-up and delivery. (Optional services include a one-year warranty extension <i>CarePac</i>™ (FM-AMMAI-36 or 400514-002).</p> <p>Optional services include a three, four or five-year warranty extension <i>CarePac</i> (179404-022, 200786-022, 200787-022).</p> <p><b>NOTE:</b> Certain restrictions and exclusions apply. For details, consult the Product Information Centre at 1-888-88-COMPAQ. <a href="http://www.compaq.com/support/warranty_upgrades/product_specific_warranty.html">http://www.compaq.com/support/warranty_upgrades/product_specific_warranty.html</a></p>

## Standard Features

### Naming Convention

The Etymology of a Model name:



### Standard Features

#### MODELS

<b>N410CP120X230C250</b> <i>P/N 470037-550</i> <i>French P/N 470037-557</i>	<b>Display</b>	12.1-inch colour TFT XGA
	<b>Processor</b>	1.2 GHz-M Mobile Intel Pentium III
	<b>Cache Memory</b>	512-KB, L2 Cache
	<b>Memory</b>	Standard 256-MB SDRAM Maximum 1024-MB SDRAM
	<b>Optical Drive</b>	None
	<b>Hard Drive</b>	30-GB SMART
	<b>Modem</b>	Type III Mini PCI 56K (V.90/V.92) modem plus 10/100 NIC Combo
	<b>Graphics</b>	ATI Mobility Radeon 16-MB SDRAM
	<b>Audio</b>	Compaq <i>Premier•Sound</i>
	<b>Operating System</b>	Microsoft Windows XP Pro
	<b>Pointing Device</b>	Touchpad
	<b>Warranty</b>	3 Year Parts, 3 Years Labour, 0 Years On-Site (3-3-0)
<b>N410CP120X230C252</b> <i>P/N 470037-662</i> <i>French P/N 470037-663</i>	<b>Display</b>	12.1-inch colour TFT XGA
	<b>Processor</b>	1.2 GHz-M Mobile Intel Pentium III
	<b>Cache Memory</b>	512-KB, L2 Cache
	<b>Memory</b>	Standard 256-MB SDRAM Maximum 1024-MB SDRAM
	<b>Optical Drive</b>	None
	<b>Hard Drive</b>	30-GB SMART
	<b>Modem</b>	Type III Mini PCI 56K (V.90/V.92) modem plus 10/100 NIC Combo
	<b>Graphics</b>	ATI Mobility Radeon 16-MB SDRAM
	<b>Audio</b>	Compaq <i>Premier•Sound</i>
	<b>Operating System</b>	Microsoft Windows 2000
	<b>Pointing Device</b>	Touchpad
	<b>Warranty</b>	3 Year Parts, 3 Years Labour, 0 Years On-Site (3-3-0)
<b>N410CP100X220C250</b> <i>P/N 470039-997</i> <i>French P/N 470040-006</i>	<b>Display</b>	12.1-inch colour TFT XGA
	<b>Processor</b>	1.0 GHz-M Mobile Intel Pentium III
	<b>Cache Memory</b>	512-KB, L2 Cache
	<b>Memory</b>	Standard 256-MB SDRAM Maximum 1024-MB SDRAM
	<b>Optical Drive</b>	None
	<b>Hard Drive</b>	20-GB SMART
	<b>Modem</b>	Type III Mini PCI 56K (V.90/V.92) modem plus 10/100 NIC Combo
	<b>Graphics</b>	ATI Mobility Radeon 16-MB SDRAM
	<b>Audio</b>	Compaq <i>Premier•Sound</i>
	<b>Operating System</b>	Microsoft Windows XP Pro
	<b>Pointing Device</b>	Touchpad
	<b>Warranty</b>	3 Year Parts, 3 Years Labour, 0 Years On-Site (3-3-0)

## Standard Features

### MODELS *(continued)*

**N410CP100X220C252**

*P/N 470040-148*

*French P/N 470040-149*

<b>Display</b>	12.1-inch colour TFT XGA	
<b>Processor</b>	1.0 GHz-M Mobile Intel Pentium III	
<b>Cache Memory</b>	512-KB, L2 Cache	
<b>Memory</b>	Standard	256-MB SDRAM
	Maximum	1024-MB SDRAM
<b>Optical Drive</b>	None	
<b>Hard Drive</b>	20-GB SMART	
<b>Modem</b>	Type III Mini PCI 56K (V.90/V.92) modem plus 10/100 NIC Combo	
<b>Graphics</b>	ATI Mobility Radeon 16-MB SDRAM	
<b>Audio</b>	Compaq <i>Premier•Sound</i>	
<b>Operating System</b>	Microsoft Windows 2000	
<b>Pointing Device</b>	Touchpad	
<b>Warranty</b>	3 Year Parts, 3 Years Labour, 0 Years On-Site (3-3-0)	

**NOTE:** Mobile Intel Pentium III-M processors support enhanced Intel SpeedStep™ technology.

### Options

Memory	512-MB (133 MHz) Memory Upgrade	238830-B25
	256-MB (133 MHz) Memory Upgrade	197898-B25
	128-MB (133 MHz) Memory Upgrade	197897-B25
	64-MB (133 MHz) Memory Upgrade	197986-B25
<b>NOTE:</b> Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only Compaq branded memory modules to ensure compatibility.		
Monitors	TFT8030 Flat Panel Colour 18-inch (carbon/silver)	234362-001
	TFT7020 Flat Panel Colour 17-inch with integrated speakers (carbon/silver)	253217-001
	TFT5017 Flat Panel Colour 15-inch (carbon/silver)	263874-003
	TFT5017m Flat Panel Colour 15-inch multimedia flat panel (carbon/silver)	279414-001
	TFT5030 Flat Panel Colour 15-inch (carbon/silver)	228134-001
	S9500 19-inch CRT (carbon/silver)	261615-003
	V7550 17-inch CRT (carbon/silver)	261611-003
MultiBay Hard Drives	40-GB SMART Hard Drive	263472-B25
	30-GB SMART Hard Drive	212791-B25
MultiBay Storage Devices	8X DVD/CD-RW Combo Drive	260472-B25
	8X DVD-ROM Drive	138230-B25
	16X CD-RW Drive	269088-B25
	24X CD-ROM Drive	298452-B25
	1.44-MB Diskette Drive	226935-B25
Other Storage Devices	IBM® 1-GB Microdrive™ (PC card Device)	217390-B25
	USB Disk-on-Key – 8 MB	249552-B25
	USB Diskette drive	230330-B25
	Parallel port cable for diskette drive	226748-B21
	<b>NOTE:</b> The <i>Evo</i> Notebook N410c requires optional Mobile Expansion Unit or external MultiBay to utilize MultiBay Storage Devices.	
Mobile Expansion Unit (MEU)	External MultiBay (USB 2.0)	217388-001
	Mobile Expansion Unit (N410c) without MultiBay devices	286255-B25
	<b>NOTE:</b> * = Data transfer rates will vary from 150 KB/s to 3600 KB/s.	
Wireless Connectivity	MultiPort 802.11b Wireless LAN W200 module	283836-001
	Bluetooth MultiPort module	228057-B21
	Compaq WL110 Wireless LAN PC Card	191808-B21
	Compaq WL510 Wireless Enterprise Access Point	216709-001
	Compaq WL410 Wireless SMB Access Point	191811-001
	Compaq WL310 Home Office Access Point	191813-001
	Compaq Range Extender Antenna	230268-B21
Power	4-cell primary Lithium-Ion battery (internal)	232593-B25
	4-cell secondary Lithium-Ion battery (external)	236309-B25
	4-cell secondary Lithium-Ion high capacity travel battery (external)	236310-B25



### Options

Common Power Solutions	MultiBay Battery (8-cells)*	265650-B25
	External Battery Charger **	135555-001
	AC Adapter 65W	265602-001
	Auto Power Adapter/Charger 65W	265649-B25
	Aircraft Power Adapter	386504-B21
	AC Line Cord (3.1 m/10-ft)	217932-002
<b>NOTE:</b> * = Use of this option with the <i>Evo</i> Notebook N400c/410c requires the optional Mobile Expansion Unit (MEU). <b>NOTE:</b> MultiBay Battery only functions in the optional MEU and will not function in the external MultiBay. <b>NOTE:</b> ** = The Universal Battery Charger will charge the N400c/410c external secondary handle batteries. It will <u>not</u> charge the N400c/410c internal primary battery.		
Input Devices	External Enhanced III Keyboard (carbon)	118003-008
	Compaq 2 Button Mouse (carbon)	103180-B21
	USB 2 Button Scroll Mouse (carbon)	195255-B25
	External 10-Key Numeric Keypad (carbon)	294317-B21
	USB EZ Access Keyboard	222726-008
	Wireless Keyboard and Mouse	251385-008
Security	Biometric PC Card	146805-B25
	Security Cable Lock	294316-B21
	Compaq Smart Card PC Card Reader	135646-B25
Invaluable Accessories	MP1400 Microportable Projector	174626-004
	MP1800 Microportable Projector	180226-001
	MP2800 Microportable Projector	180228-001
	Multimedia Adapter & Remote Kit ( <i>comes with the MP1800</i> )	174963-001
	MP1600 Video Adapter	116298-001
	MP1600 Lamp replacement kit	118052-001
	MP1800/1400 Lamp replacement kit	189789-001
	MP2800 Lamp replacement kit	215464-001
Carrying Cases	Compaq Ultralight Case (nylon)	167336-B21
	Compaq Ultralight Case (leather)	242359-B25
	Compaq Plus Case	242360-B25
	Compaq Professional Case (nylon)	242361-B25
	Compaq Professional Case (leather)	242362-B25
	<b><i>Evo Notebook N410c, N400c, N610c, and Armada M300 and M700 specific</i></b>	
	Compaq M Series Portfolio Case	167337-B21

## Memory

### Compaq *Evo* Notebook N410c

#### STANDARD MEMORY

0-MB of memory on system board,

2 Slots total

1-256-MB DIMM installed in Slot 1

1-Additional open Memory Slot

Memory	Slot 1	Slot 2
	256 MB	Empty

#### STANDARD MEMORY WITH OPTIONAL MEMORY UPGRADES

Support for up to 512-MB of SDRAM is available with the installation of optional SDRAM Memory Upgrades.

Up to	Slot 1	Slot 2
256 MB	256 MB	Empty
384 MB	256 MB	128 MB
512 MB	256 MB	256 MB
768 MB	256 MB	512 MB
1024 MB	512 MB	512 MB

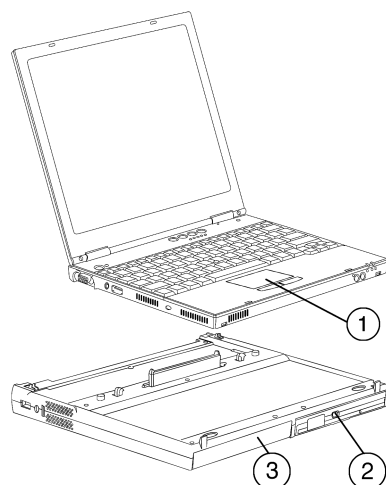
**NOTE:** This chart does not represent all possible memory configurations. Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only Compaq branded memory modules to ensure compatibility.

Following are memory options available from Compaq:

512-MB (133-MHz) Memory Upgrade	238830-B25
256-MB (133-MHz) Memory Upgrade	197898-B25
128-MB (133-MHz) Memory Upgrade	197897-B25

**NOTE:** Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only Compaq branded memory modules to ensure compatibility.

## Storage



1. Hard Drive
2. MultiBay
3. MultiBay

## DRIVE SUPPORT

### System Drive Support

Removable Media	Quantity Supported	Drive Bay Supported
1.44-MB Diskette Drive (optional)	Up to 1	External connects via parallel port

### Hard Drives

40-GB SMART Hard Drive	Up to 1	Hard Drive Bay
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## MEU DRIVE SUPPORT

Removable Media	Quantity Supported	Drive Bay Supported
8X DVD/CD-RW Combo Drive	Up to 2	MultiBay
8X DVD-ROM Drive	Up to 2	MultiBay
16X CD-RW Drive	Up to 2	MultiBay
24X CD-ROM Drive	Up to 2	MultiBay
1.44-MB Diskette Drive	Up to 1	MultiBay

### Secondary Hard Drives

40-GB SMART Hard Drive	Up to 2	MultiBay
30-GB SMART Hard Drive	Up to 2	MultiBay

### Technical Specifications

<b>System Unit</b>	<b>Dimensions (H x W x D)</b>	12.1-inch TFT panel display	0.89 x 10.5 x 9.5 in/2.2 x 26.6 x 24.2 cm
	<b>Weight</b>	Minimum/Maximum	3.5 lb/1.58 kg
<b>Stand-Alone Power Requirements</b>	Nominal Operating Voltage (Li-Ion)		14.8 VDC
	Maximum Operating Power		40W
	Peak Operating Power		50W
<b>Temperature</b>	Operating		50° to 95° F/10° to 35° C
	Non-operating		-4° to 140° F/-20° to 60° C
<b>Relative Humidity</b>	Operating		10% to 90% relative humidity, non-condensing
	Non-operating		5% to 90% relative humidity, 101.6° F/38.7° C maximum wet bulb temperature
<b>Shock</b>	Operating		10 G, 11 ms, half-sine
	Non-operating		60 G, 11 ms, half-sine
<b>Vibration</b>	Operating		0.5 G, 10 to 500 Hz, 0.5 Oct/Min sweep rate
	Non-operating		1.0 G, 10 to 500 Hz, 0.5 Oct/Min sweep rate
<b>Maximum Altitude (unpressurized)</b>	Operating		0 to 10,000 ft/3,048 m (14.7 to 10.1 psia)
	Non-operating		0 to 30,000 ft/9,144 m (14.7 to 4.4 psia)
<b>12.1-Inch Colour TFT XGA Display</b>			
	<b>Dimensions (H x W)</b>		10.3 x 7.8 in/26.1 x 19.9 cm
	<b>Diagonal Size</b>		12.1 in/30.7 cm
	<b>Mounting</b>		Internal
	<b>Number of Colours</b>		16M
	<b>Contrast Ratio</b>		125:1
	<b>Refresh Rate</b>		60 Hz
	<b>Brightness</b>		130 nit typical AC only/70 on battery115 nit minimum
	<b>Pixel Resolution</b>	Pitch	0.264 x 0.264 mm
		Format	1024 x 768
		Configuration	RGB Stripe
	<b>Backlight</b>		CCFT
	<b>Character Display</b>		80 x 25
	<b>Total Power Consumption</b>		4W

## Technical Specifications

### Hard Drives

40 GB

<b>MultiBay Drive Adapter</b>	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
	Weight	0.15 lb/70 g
<b>Drive Weight</b>	0.21 lb/95 g	
<b>Capacity</b>	40 GB	
<b>Height</b>	0.374 in/9.5 mm	
<b>Width</b>	2.75 in/70 mm	
<b>Interface</b>	ATA-5	
<b>Transfer Rate</b>	Synchronous (maximum)	100 MB/s (Drive Capability)
	Security	ATA Security
<b>Seek Time</b> (typical reads, including settling)	Single Track	3 ms
	Average	13 ms
<b>Rotational Speed</b>	4200 RPM	25 ms
<b>Logical Blocks</b>	78,140,160	
<b>Operating Temperature</b>	41° to 131° F/5° to 55° C	
<b>Features</b>	Security	ATA Security

### External AC Adapter

<b>Weight</b>	0.62 lb/0.28 kg	
<b>Power Supply (Input)</b>	Operating Voltage	90 to 260 VAC RMS
	Operating Current	1.7 A RMS
	Operating Frequency Range	47 to 63 Hz AC
	Maximum Transient	4/50 kV

### Internal Lithium-Ion Battery Pack

<b>Weight</b>	0.49 lb/0.22 kg	
<b>Cells</b>	4-cell Lithium-Ion	
<b>Energy</b>	Voltage	14.4 V
	Amp-hour capacity	1.96 Ah
	Watt-hour capacity	28Wh
<b>Temperature</b>	Operating	41° to 95° F/5° to 35° C
	Non-operating	-4° to 140° F/-20° to 60° C
<b>Battery Re-Charge Time</b>	System in OFF mode or Standby	2 hours
	System ON (depending of system power consumption)	2-5 hours

## Technical Specifications

<b>Secondary Lithium-Ion Battery Pack</b>	<b>Dimensions (H x W x D)</b>	0.9 x 10.47 x 0.9 in/2.3 x 26.6 x 2.3 cm	
	<b>Weight</b>	0.48 lb/0.21 kg	
	<b>Cells</b>	4-cell Lithium-Ion	
	<b>Energy</b>	Voltage	14.4 V
		Amp-hour capacity	1.96 Ah
		Watt-hour capacity	28Wh
	<b>Temperature</b>	Operating	41° to 95° F/5° to 35° C
		Non-operating	-4° to 140° F/-20° to 60° C
<b>Secondary High Capacity Lithium-Ion Battery Pack</b>	<b>Dimensions (H x W x D)</b>	1.8 x 10.6 x 1.2 in/4.6 x 26.6 x 2.3 cm	
	<b>Weight</b>	0.93 lb/0.42 kg	
	<b>Cells</b>	4-cell Lithium-Ion	
	<b>Energy</b>	Voltage	14.4 V
		Amp-hour capacity	2.6 Ah
		Watt-hour capacity	37.4 Wh
	<b>Temperature</b>	Operating	41° to 95° F/5° to 35° C
		Non-operating	-4° to 140° F/-20° to 60° C
<b>MultiBay Lithium-Ion Battery Pack (8-cell)</b>	<b>Dimensions (H x W x D)</b>	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm	
	<b>Weight</b>	1.03 lb / 0.47 Kg	
	<b>Energy</b>	Voltage	14.8 V
		Amp-hour capacity	3.2 Ah
		Watt-hour capacity	47.4 Wh
	<b>Temperature</b>	Operating	32° to 122° F/0° to 50° C
		Non-operating	32° to 140° F/0° to 60° C
	<b>Battery Re-Charge Time</b>	System in OFF mode or Standby	2 hours
		System ON	2 to 5 hours
	<b>Lifecycle</b>	80% capacity after 300 full charge/discharge cycles, or 600 half discharge followed by a full charge cycles.	

## Technical Specifications

8X DVD/CD-RW Combo Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.74 lb/0.34 kg
	Centre Hole Diameter	0.59 in/1.5 cm	
	Disk Diameter	12 cm/8 cm	
	Disk Thickness	0.047 in/1.2 mm	
	Track Pitch	0.74 µm	
	Access Times (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 225 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB/s (minimum)	
	Data Transfer Rate (typical, including settling)	CD-R (8X)	1200 KB/s (150 KB/s at 1X CD rate)
		CD-RW (8X)	1200 KB/s (150 KB/s at 1X CD rate)
		CD-ROM (24X)	3600 KB/s (150 KB/s at 1X CD rate)
		DVD (8X)	10,800 KB/s (1352 KB/s at 1X DVD rate)
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	< 15 seconds	
	Stop Time	< 6 seconds	
24X DVD/CD-RW Combo Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.74 lb/0.33 kg
	Centre Hole Diameter	3.9 cm	
	Disk Diameter	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 µm	
	Access Times (typical reads, including settling)	Random CD	< 150 ms
		Full-Stroke CD	< 225 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB/s (minimum)	
	Data Transfer Rate (typical, including settling)	CD-R (24X)	3600 KB/s (150 KB/s at 1X CD rate)
		CD-RW (10X)	1500 KB/s (150 KB/s at 1X CD rate)
		CD-ROM (24X)	3600 KB/s (150 KB/s at 1X CD rate)
		DVD (8X)	10,800 KB/s (1352 KB/s at 1X DVD rate)
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	< 15 seconds	
	Stop Time	< 6 seconds	

## Technical Specifications

16X CD-RW Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.74 lb/0.33 kg
	Centre Hole Diameter	1.5 cm	
	Disk Diameter	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 $\mu$ m	
	Access Times (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 225 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB/s (minimum)	
	Data Transfer Rate (typical, including settling)	CD-R (16X)	2400 KB/s
		CD-RW (8X)	1200 KB/s
		CD-ROM (24X)	3600 KB/s
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	< 15 seconds	
	Stop Time	< 6 seconds	

8X DVD-ROM Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.66 lb/0.3 kg
	Centre Hole Diameter	1.5 cm	
	Disc Diameter	12 cm/8 cm	
	Disc Thickness	1.2 mm	
	Track Pitch	0.74 $\mu$ m	
	Access Times (typical reads, including settling)	Random (typical)	< 150 ms DVD Media
		Full-Stroke (typical)	< 225 ms DVD Media
		Random (typical)	< 110 ms CD Media
		Full-Stroke (typical)	< 200 ms CD Media
	Cache Buffer	512 KB/s (minimum)	
	Data Transfer Rate (typical, including settling)	Max 24X CD	3600 KB/s (150 KB/s at 1X CD rate)
		Max 8X DVD	10,800 KB/s (1352 KB/s at 1X DVD rate)
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	< 10 seconds	Single Session CD-ROM
	Stop Time	< 3 seconds	



## Technical Specifications

<b>24X CD-ROM Drive</b>	<b>MultiBay Drive</b>	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.50 lb/0.22 kg
	<b>Applicable Disk</b>	CD-ROM (Mode 1, 2 and 3), CD-XA ready (Mode 2, Form 1 and 2), CD-I ready (Mode 2, Form 1 and 2), CD-R (read only), CD Plus, Photo CD (Single and Multi-session), CD-Extra, Video CD, CD-WO (fixed packets only), CD-Bridge	
	<b>Centre Hole Diameter</b>	15 mm	
	<b>Disk Diameter</b>	12 cm/8 cm	
	<b>Disk Thickness</b>	1.2 mm	
	<b>Track Pitch</b>	1.6 µm	
	<b>Access Times</b> (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 300 ms
	<b>Audio Output Level</b>	Line-out	0.7 Vrms
	<b>Cache Buffer</b>	128 KB	
	<b>Data Transfer Rate</b> (typical, including settling)	Sustained (16X)	2400 KB/s
		Variable	1500 to 3600 KB/s (10X to 24X)
		Normal PIO Mode 4 (single burst)	16.66 MB/s
	<b>Start-up Time</b>	< 8 seconds	
	<b>Stop Time</b>	< 4 seconds	

<b>MultiBay Diskette Drive</b>	<b>MultiBay Drive</b>	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.51 lb/230 g
	<b>Diskette Size</b>	3.5 in	
	<b>Height</b>	12.7 mm	
	<b>Bytes per Sector</b>	512	
	<b>Sectors per track</b>	High density	18 (1.44 MB)/15 (1.2 MB)
		Low density	9
	<b>Tracks per side</b>	High density	80 (1.44 MB)/80 (1.2 MB)
		Low density	80
	<b>Read/Write heads</b>	2	
	<b>Access Times</b>	Track-to track (high/low)	3 ms/6 ms
		Average (high/low)	94 ms/174 ms
		Settling time	15 ms
		Latency average	100 ms

### Technical Specifications

<b>802.11b MultiPort Module</b>	<b>Form Factor</b>	Compaq "MultiPort"	
	<b>Weight</b>	0.22 lb/100 g (maximum)	
	<b>Operating Temperature</b>	Operating	14° to 149° F/-10° to 65° C
	<b>Storage Temperature</b>	Non-operating	-40° to 176° F/-40° to 80° C
	<b>Humidity</b>	Operating	10 to 90%
		Non-operating	5 to 95%
	<b>Altitude</b>	Operating	0 to 15,000 ft/4,572 m
		Non-operating	0 to 40,000 ft/12,192 m
	<b>Plug and Play</b>	USB 1.1 compliant	
		Microsoft Windows Plug and Play compliant	
	<b>RF Network Standard</b>	IEEE 802 Part 11b (802.11b)	
	<b>Frequency Band</b>	2,4000 to 2.4835 GHz	
	<b>Number of Selectable Sub-channels</b>	<b>Worldwide Certification</b>	
		United States (FCC)	11
	<b>Data Rates</b>	1, 2, 5.5, 11 Mbps	
	<b>Antenna type</b>	Internally integrated within module (with special polarization diversity)	
	<b>WEP Security</b>	64-bit encryption keys compliant to IEEE 802.11	
		128-bit encryption key compliant to IEEE 802.11	
		Ability to enter keys manually or via pass-phrase	
	<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer)	
		Infrastructure (Access Points Required)	
	<b>Modulation Technique</b>	Direct Sequence Spread Spectrum	
		DBPSK, DQPSK, CCK	
	<b>Receiver Sensitivity – Bit Error Rate (1E-5)</b>	11 Mbps: -85 dBm	
		5.5 Mbps: -87 dBm	
		2 Mbps: -91 dBm	
		1 Mbps: -94 dBm	
	<b>Maximum Receive Level</b>	-4 dBm	
	<b>Output Power (approximately)</b>	18 dBm	
	<b>Operating Voltage</b>	5V power operation	
	<b>Power Management</b>	Keystroke Fn+F2 Power On/Off control	
	<b>Power Consumption</b>	Transfer mode: < 600 mA, maximum	
		Receive mode: > 400 mA, maximum	
		Standby mode: > 1 mA, maximum	
	<b>Transmit Power</b>	10 to 100mW	
		It is preferable to have the user configurable output power to save battery life for laptop users or in high AP coverage areas	
	<b>Power Saving Option</b>	802.11 Compliant Power Saving	
		Power Saving Mode selectable through the configuration utility	
		ACPI compliant power management	
	<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK	
	<b>OS Support</b>	Microsoft Windows 98/98SE	
		Microsoft Windows 2000	
		Microsoft Windows Millennium	
	<b>Protocols Supported</b>	TCP/IP	
		IPX/SPX	
		UDP	
	<b>LED Activity</b>	Flashing LED – AP Search Mode	
		Solid LED – On	
		LED Off – Power Off	

## Technical Specifications

Throughput, Data Rate and Operating Distance	Throughput	Data Rate	Operating Distance
	> 4.5 Mbps	11 Mbps	<ul style="list-style-type: none"> <li>• 1000 feet – Open sight</li> <li>• 100 feet – Closed space (Steel Space)</li> </ul>
	> 2 Mbps	5.5 Mbps	<ul style="list-style-type: none"> <li>• 1100 feet – Open sight</li> <li>• 200 feet – Closed space (Steel Space)</li> </ul>
	> 700 Kbps	1 Mbps	<ul style="list-style-type: none"> <li>• 1200 feet – Open sight</li> <li>• 300 feet – Closed space (Steel Space)</li> </ul>
Bluetooth MultiPort Module	Form Factor	Compaq "MultiPort"	
	Bluetooth	1.1 Compliant	
	Dimensions	2.2 x 6.6 x 0.55 in/5.6 x 16.7 x 1.4 cm	
	Weight	0.22 lb/100 g (maximum)	
	Temperature	Operating	50° to 104°F/10° to 40°C
		Non-operating	-4° to 140°F/-20° to 60°C
	Humidity	Operating	10% to 90%
		Non-operating	5% to 95%
	Altitude	Operating	0 to 10,000 ft/3,048 m
		Non-operating	0 to 30,000 ft/9,144 m
	Plug and Play	USB 1.1 compliant	
		Microsoft Windows Plug and Play compliant	
	Frequency Band	2,4000 to 2.4835 GHz	
	Number of Available Channels	79 (1 MHz) available channels	
	Data Rates and throughput	1 Mbps	
		Synchronous Connection Oriented links up to 3, 64 kbps, voice channels	
		Asynchronous Connection Less links 723.2 kbps/57.6 kbps asymmetric or 433.9 kbps symmetric	
	Antenna type	Internally integrated within module (with special polarization diversity)	
	Range	328 ft/100 m	
	Profile Support	General Access Profile	
		Service Discovery Application Profile	
		Serial Port Profile	
		Generic Object Exchange Profile	
		File Transfer Profile	
		Synchronization Profile	
		Dial-Up Networking Profile	
		LAN Access Profile	
		Object Push Profile	

## Technical Specifications

Bluetooth MultiPort Module <i>(continued)</i> Usage Models	Service Discovery (determine what Bluetooth devices are within range and support authorization)	
	<b>Synchronization:</b>	
	PDAs to PCs	
	Portable to Desktop	
	<b>File Transfer:</b>	
	File and directory browsing and navigation on another Bluetooth device.	
	File copying	
	Object manipulation – including add, delete, create new folders etc.	
	Wireless link to Corporate LAN using several Bluetooth devices sharing the same	
	<b>Access Point:</b>	
	Corporate email, network neighborhood, access to LAN applications, file transfer, ftp, Internet browsing, etc, using TCP/IP	
	Wireless link to WAN thru cell phone	
	GSM/SMS, PCS, PHS, DECT, RAM, ARDIS, CDPD, etc.	
	Agnostic to WAN technology	
	Send/receive SMS messages	
	Wireless link to Printer	
	Adhoc peer to peer networking (two computers) or Personal Area Networking (PAN) using NDIS (< 7 computers)	
	Adhoc Bluetooth Pico-networking (point to multi-point)	
	Object Push – Business card or appointment exchange	
	<b>Transmit Power</b>	< 20 dBm (Bluetooth Class 1)
	<b>Receive Sensitivity</b>	Better than –70 dBm at 0.1 % raw bit error rate
	<b>Link Topology</b>	Point to Point, Multipoint Pico Nets up to 7 slaves
	<b>Security</b>	Full support of Bluetooth Security Provisions
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer)	
	Infrastructure (Access Points Required)	
<b>Power Requirement</b>	Peak	< 1500 mW
	Average	< 500 mW
	Standby	< 250 mW
<b>Power Management</b>	Microsoft Windows ACPI, and USB Bus Support	
	Keystrokes Fn+F2 Power On/Off control	
	Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff	
<b>OS Support</b>	Microsoft Windows 98/98SE	
	Microsoft Windows 2000	
	Microsoft Windows Millennium	
<b>Protocols Supported</b>	TCP/IP	
	IPX/SPX	
	UDP	
<b>LED Activity</b>	Solid Blue LED – On	
	LED Off – Power Off	
<b>Certifications</b>	All necessary regulatory approvals for countries we support including: FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark	

## Technical Specifications

Type III Mini PCI 56K (V.90/V.92) Modem plus 10/100 NIC Combo	Form Factor	Mini-PCI Type III per Specification
	OS Support (with all released Service Packs)	Microsoft Windows 98 (Gold, SE), Windows Millennium Edition, Windows NT 4.0, Windows 2000, Windows XP (Home, Professional), DOS Application Support under Windows
	Power Management Support	APM Revision 1.2, ACPI, Compaq Power Management Extensions for Microsoft Windows NT
	Approvals/Certifications	UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, CE Mark, Other Countries
	Modem Device Driver Name	Lucent Win Modem
	Data Mode Capabilities	V.90/V.92 (a-law, mu-law)
		V.8bis
		V.80
		V.44, V.42bis, MNP5 (Compression)
		V.42 (LAPM, MNP2-4) (Error Correction)
		V.34 (file date: 10/96)
		Optional symbol rates: 2800, 3429
		Asymmetric Symbol rates
		Synchronous primary channel data signaling rates: 3600, 31200
		Automatic rate re-negotiation
V.32bis		
V.32		
V.23		
V.22bis		
V.22		
V.21		
Bell 212A		
Bell 103J		
Fax Mode Capabilities	TIA/EIA-578-B (Class 1)	
	T.30, T.4 (Group 3)	
	V.17	
	V.29	
	V.27ter	
	V.21 Channel 2	
Command Set	V.250 (Partial)	
	TIA-602	
	Identification: +GMI, +GMM, +GMR	
	Port control: +IPR, +ICF, +IFC, +lirr	
	Modulation: +MS, +MR, +MA	
	Error control: +ES, +ER, +EB, +ESR, +ETBM	
	Data compression: +DS, +DR	
	V.251	

## Technical Specifications

<b>Type III Mini PCI 56K (V.90/V.92) Modem plus 10/100 NIC Combo</b> <i>(continued)</i>	<b>NIC Device Driver Name</b>	Intel PRO/100 P Mobile Combo Adapter
	<b>Data Link Layers</b>	IEEE 802.2 LLC
		SNAP
	<b>Ethernet Features</b>	10 Mbps Ethernet: IEEE 802.3 standard 10BASE-T
		100 Mbps Ethernet: IEEE 802.3u standard 100BASE-TX
		Full Duplex at 10 and 100 Mbps
		Auto-Negotiation
		Wake on LAN from all power managed states, including soft off (S5)
		Boot on LAN from OFF
		Lower Power State on Link Loss
	<b>Software support</b>	IBM LAN Server Version 1.2, 1.3, 2.0, 4.0
		Microsoft Windows 98 SE, NT 4.0, 2000, XP (Home and Professional)
		Novell® Netware® 3.1x, 4.x, 5.x
	<b>Protocol support</b>	TCP/IP
		Novell IPX/SPX and Microsoft compatible
		Novel IPX ODI
		Microsoft NetBEUI
		IBM DLC

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